

Table 2								
Item Number	Start Date	Estimated Quantity of Soil Removed	Hazardous Waste Codes	Location	Item Description	Contractors Involved	Supplemental Documentation ID	Responsive to Question 4 or 8
08002	8/1/2007	11,861,950 lbs	N/A	Tank Farm	A concrete secondary containment and dike wall was constructed for the facility tank farm. The containment was constructed around the facility's styrene, pentane, and firewater storage tanks. Soil was excavated in preparation for the containment and dike wall installation. Construction began prior to FHR taking ownership of the facility in August 2007 and was completed in 3 rd Quarter 2008. The soil quantities listed are the amounts that were removed during FHR's ownership. Subsurface soil sampling associated with the project began under the prior owner and continued after FHR became the owner.	August Mack Environmental and Terracon Consulting completed a subsurface study on tank farm soil and collected soil borings. Prairie Analytical was the laboratory used for TCLP waste analysis. Lindblad Construction built the secondary containment and dike wall. Pohar and Sons completed the soil excavation. D Construction used dump trucks and transported the non-hazardous soil to Landcomp Landfill for disposal.	FHRPRU000799-FHRPRU001085	8
	1 st Quarter 2008	1,507 lbs	D006, D008	Tank Farm		August Mack Environmental and Terracon Consulting completed a subsurface study on tank farm soil and collected soil borings. Prairie Analytical was the laboratory used for TCLP waste analysis. Lindblad Construction built the secondary containment and dike wall. Pohar and Sons completed the soil excavation.		
10001	8/1/2007	Unknown	N/A	Tank Farm	Soil was excavated in the tank farm after a styrene flexible line connection developed a pinhole leak and leaked approximately 3 gallons of styrene to soil.	Pohar and Sons conducted the excavation work.	FHRPRU000001-FHRPRU000001	4
10002	8/2/2007	Unknown	N/A	Tank Farm	Soil was excavated in the tank farm after a styrene flange leaked approximately ½ gallon to soil.	Pohar and Sons conducted the excavation work.	FHRPRU000001-FHRPRU000001	4
10010	2/4/2008	2,250 gallons	N/A	PEP Filter House	A 3/8 inch PVC line developed a small hole and approximately 81 lbs of sulfuric acid leaked to soil and gravel near the PEP filter house. The soil and gravel were excavated. The remaining soil was verified to have a neutral pH.	Pohar and Sons conducted the excavation work.	FHRPRU000001-FHRPRU000001	4
10011	5/14/2008	Unknown	N/A	PEP Filter House	A sulfuric acid pump developed a flange leak and approximately 2 gallons of acid leaked to the gravel surrounding the PEP filter house. The soil was excavated.	Pohar and Sons conducted the excavation work.	FHRPRU000001-FHRPRU000001	4

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08042	11/30/2008	88,220 lbs	D008	Buildings 1, 2, 3 and Tank Farm North Wall	Soil was excavated in preparation for a new pipe rack structural support system. The project was finished in 3 rd Quarter 2010 and subsurface soil sampling was conducted throughout the project.	August Mack Environmental completed a subsurface study on the soil and collected soil borings. Prairie Analytical was the laboratory used for TCLP waste analysis. Plainfield Grading and Excavating Inc. completed the excavating work.	FHRPRU001086-FHRPRU001350	8
10012	6/1/2009	89,794 lbs	D006; D008	Maintenance Building	Soil was excavated in preparation for construction activities on the maintenance building foundation.	Rose Concrete conducted the excavation work. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001351-FHRPRU001375	8
10013	12/1/2009	36,140 lbs	D006; D008	West parking lot	Soil was excavated in preparation for repairs to an 8" city water main line that was located underneath the facility's west parking lot.	Pohar and Sons conducted the excavation work and repairs. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001376-FHRPRU001381	8
10021	3/16/2011 through 12/5/2011	402,000 lbs	N/A	Facility wide (see item description)	In March, April, May, and December of 2011 a series of underground firewater line repairs occurred throughout the facility. Soil was excavated in order to repair an underground firewater line break and install valve assemblies near the facility's northeast firewater pump house. Soil was excavated in order to repair an underground firewater line break near the west side of extrusion. Soil was excavated in order to repair an underground firewater line break and replace one valve assembly near the northwest corner of the water plant. Soil was excavated in order to repair an underground firewater line break to the south of the boiler house.	Pohar and Sons conducted the excavation work and repairs. Prairie Analytical and Cornerstone Laboratories were the laboratories used for the TCLP waste analyses.	FHRPRU001382-FHRPRU001449	8
		72,154 lbs	D006; D008					
64890	7/12/2012	80 Cubic Yards	N/A	South of EPS Warehouse	Soil was excavated in order to repair an underground firewater line break to the south of the EPS warehouse.	Pohar and Sons conducted the excavation work and repairs. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001450-FHRPRU001464	8
68411	10/15/2012	60 Cubic Yards	N/A	Southwest of QC Lab	Soil was excavated in order to repair an underground firewater line break to the southwest of the QC lab near the railroad tracks.	Pohar and Sons conducted the excavation work and repairs.	None Available	8
69474	11/4/2012	60 Cubic Yards	N/A	West Parking Lot	Soil was excavated in order to repair an underground firewater line break near the facility west parking lot.	Pohar and Sons conducted the excavation work and repairs. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001465-FHRPRU001473	8

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12058B	11/29/2012	1,620 Cubic Yards 9—55-gallon drums	D006; D008	Building 4 Central Control Room	Soil was excavated in preparation for the construction of a new explosion proof building for Building 4's central control room. The soils excavated were containerized into roll-offs, sampled for hazardous waste analysis, and disposed of offsite at a permitted TSDF.	Pohar and Sons conducted the excavation work. Rose Concrete poured the concrete foundation. Hunter Buildings constructed the new explosion proof building. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001474-FHRPRU001628	8
150494	2/11/2013	1,260 Cubic Yards	D006; D008	Technical Development Control Room	Soil was excavated in preparation for the construction of a new explosion proof building for the Technical Development/Pilot Plant control room. The soils excavated were containerized into roll-offs, sampled for hazardous waste analysis, and disposed of offsite at a permitted TSDF.	Pohar and Sons conducted the excavation work. Rose Concrete poured the concrete foundation. Hunter Buildings constructed the new explosion proof building. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU001629-FHRPRU001815	8
75799	3/9/2013	Unknown	N/A	West firewater pump house	Soil was excavated in order to repair an underground firewater line break near the facility west firewater pump house.	Pohar and Sons conducted the excavation work and repairs.	FHRPRU001816-FHRPRU001816	8
74679	4/8/2013	Unknown	N/A	Building 4 pipe rack	A 6' by 8' area of road pack and 20' by 50' area of asphalt was remediated due to a styrene spill.	Koch Remediation and Environmental Services and Weston Solutions were hired for the remediation work. Prairie Analytical and TestAmerica were the laboratories used for waste analysis.	FHRPRU001817-FHRPRU001999	4
152726	8/13/2013	180 Cubic Yards	D006; D008	Underground Plant Sanitary Sewer Lines	Soil was excavated in order to replace a section of the plant underground sanitary sewer line and separate process wastewater from sanitary wastewater near the plant utilities area.	Pohar and Sons conducted the excavation work and repairs. Rose Concrete poured concrete. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002000-FHRPRU002044	8
153629	10/7/2013	540 Cubic Yards	D006; D008	Underground Plant Sanitary Sewer Lines	Soil was excavated in order to replace a section of the plant underground sanitary sewer line near the plant PEP filter house.	Pohar and Sons conducted the excavation work and repairs. Rose Concrete poured concrete. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002045-FHRPRU002076	8
155225	2/19/2014	235,200 lbs	N/A	South of EPS Warehouse	Soil was excavated in order to install a new valve assembly on the underground firewater system line along the facility south property line.	D Construction conducted the excavation work and repairs. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002077-FHRPRU002088	8
90853	4/25/2014	Estimated 168,000 lbs	N/A	South of Building 4	Soil and gravel were excavated to remove styrene contamination and prepare for a	Andrews Engineering Inc. conducted soil sampling. Prairie Analytical was the laboratory used for the waste analysis. D	FHRPRU002089-FHRPRU002740	8

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					concrete pad to be installed on the south side of Building 4.	Construction conducted the excavation work and used dump trucks to haul soil to landfill.		
177057	8/15/2015	55 gallons	N/A	Water plant	Soil was excavated in order to install a concrete secondary containment around the water plant brine storage tank.	D Construction conducted the excavation work and Rose Concrete poured the secondary containment. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002741-FHRPRU002756	8
120264	2/7/2016	Unknown	N/A	Utilities	A 4' by 4' area of gravel was remediated following a hydraulic oil leak on a bobcat during snow removal.	TNT Lawn & Snow removed the contaminated gravel.	FHRPRU002757-FHRPRU002757	4
179867	2/26/2016	60 Cubic Yards	D006; D008	Nitrogen Pad	Soil was excavated in order to install a concrete pad in preparation for two new liquid nitrogen storage tanks.	Patrick Engineering conducted the excavation work and Rose Concrete installed the concrete pad. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002758-FHRPRU002799	8
		180 Cubic Yards	N/A	Nitrogen Pad				
180676	4/11/2016	1220 Cubic Yards	N/A	Wastewater Treatment Plant	Soil was excavated in order to replace the facility's 280,000-gallon wastewater surge tank and install a concrete secondary containment around it.	Patrick Engineering was the contractor responsible for performing the surge tank project construction. Prairie Analytical and Suburban Laboratories were the laboratories used for completing TCLP waste analyses.	FHRPRU002800-FHRPRU002932	8
		240 Cubic Yards	D006; D008	Wastewater Treatment Plant				
183596	8/1/2016	55 gallons	N/A	Wastewater Treatment Plant	Soil and concrete were excavated in order to improve the concrete trench drains surrounding the two wastewater treatment clarifiers.	Pullara conducted the excavation work and installed the concrete trench.	FHRPRU002933-FHRPRU002941	8
127622	8/7/2016	60 Cubic Yards	N/A	Southeast corner of EPS Warehouse	Soil and concrete were excavated in order to repair an underground firewater line break that occurred to the south of the EPS warehouse.	D Construction conducted the excavation work. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002942-FHRPRU002946	8
183637	10/3/2016	50 Cubic Yards	D006; D008	Boiler house		CorrPro conducted the excavation work and D Construction loaded soil into roll-	FHRPRU002947-FHRPRU002972	8

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		50 Cubic Yards	N/A		Soil was excavated in order to install a cathodic protection system on two buried natural gas lines connecting into the boiler house.	offs. Prairie Analytical was the laboratory used for TCLP waste analysis.		
		645 gallons ¹	N/A					
74761	5/23/2017	50 Cubic Yards	N/A	Building 4	Soil was excavated in order to repair an underground firewater line break on the east side of Building 4.	D Construction conducted the excavation work and repairs. Prairie Analytical was the laboratory used for TCLP waste analysis.	FHRPRU002973-FHRPRU002978	8
157046	7/23/2018	5—55 gallon drums	N/A	South of Building 4	Top layer of gravel was excavated following a roll-off truck leaking hydraulic oil on the gravel to the south of the Building 4 concrete pad.	Pullara conducted the excavation work.	FHRPRU002979-FHRPRU002980	4
82371	8/16/2018	150 Cubic Yards	N/A	Boiler house	Soil was excavated in order to repair an underground firewater line break at the boiler house.	Badger and Pullara conducted the excavation work. Pullara did the firewater line repairs. PDC Labs was the laboratory used for TCLP waste analysis.	FHRPRU002981-FHRPRU002998	8

¹ While gathering information in response to this RCRA request, FHR identified that soil drum ID 1045 was inadvertently characterized as non-hazardous waste and shipped to Spring Grove Resource Recovery (OHD00816629) on 9/14/2017. On 9/27/2017, Spring Grove Resource Recovery shipped the soil to Rumpke Sanitary Landfill (OHR000181495) for final disposal. The soil drum should have been classified by FHR as a D008 hazardous waste and shipped to a permitted facility for disposal. On 6/20/2019, FHR notified Rumpke Sanitary Landfill of the misclassification.